

**HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING**

**APPROVED MATERIALS LIST  
Published on-line since 2007 (Updated 3/28/2018)**

Reference	Product Description	Manufacturer	Model Number (Details)	Date listed
611.02.00	Detectable Warning Surface Truncated Domes	ADA Solutions, Inc.	Cast in Place & Replaceable Wet-Set, both in yellow color only	1/11/2012
905.01.00	PVC Fittings	Harco	n/a	12/10/2007
905.01.00	PVC Fittings	Harvel	n/a	12/10/2007
905.01.00	PVC Fittings	Multi Fittings	Blue Brute C-900 fittings nominal pipe sizes 4 to 12	6/21/2013
905.01.00	PVC Fittings	Plastic Trends	SDR 35 - WYE Plug and Cap, 1/8 bend; up to nominal pipe size 12	6/21/2013
905.01.00	PVC Pipe	Diamond Plastics Corp.	n/a	12/10/2007
905.01.00	PVC Pipe	ETI/Uponor	4" and larger DR18 1-1/2" and 2" SDR 21	12/10/2007
905.01.00	PVC Pipe	JM Eagle	C-900 Blue Brute (4" to 12")	5/23/2016
905.01.00	PVC Pipe	National Pipe & Plastics, Inc.	n/a	12/10/2007
905.01.00	PVC Pipe Joint Harness Restraints	EBAA	1500 (4" to 12")	5/23/2016
905.01.00	PVC Pipe Joint Harness Restraints	EBAA	2200 (14" to 48")	12/10/2007
905.01.00	PVC Pipe Joint Harness Restraints	Romac	Style 611	12/10/2007
905.01.00	PVC Pipe Mechanical Joint Fitting Restraints	EBAA	2000 PV (4" to 36")	12/10/2007
905.01.00	PVC Pipe Mechanical Joint Fitting Restraints	EBAA	2200 (42" to 48")	12/10/2007
905.01.00	PVC Pipe Mechanical Joint Fitting Restraints	Romac	GripRing Series (4" to 12")	12/10/2007
905.01.00	PVC Pipe Mechanical Joint Fitting Restraints (Wedge Action Restraint for PVC Pipe)	Sigma	SLCE (3" to 36")	6/21/2013
905.01.00	PVC Pipe Mechanical Joint Fitting Restraints (Wedge Action Restraint for PVC Pipe)	SIP Industries	EZPVC (4" to 12")	9/12/2017
905.01.00	Schedule 40 PVC	North American Pipe Corporation	Fittings up to nominal pipe size 12	6/21/2013
905.01.00	Schedule 40 PVC Fittings	Charlotte Pipe and Foundry	Fittings up to nominal pipe size 12	6/21/2013
905.01.02	SDR 35 Gasketed Sewer Fittings	IPEX (Multi Fittings)	Ring Tight nominal pipe sizes 4 to 12	6/21/2013
905.01.02	SDR 35 Gasketed Sewer Fittings	Multi Fittings	45° WYE, 45° Elbow, Plug and Cap	6/21/2013
905.01.02	SDR 35 Pipe	North American Pipe Corporation	n/a	6/21/2013
905.01.02	Elastomeric Gravity Sewer fittings	Fernco	1000 RC Series Shielded PVC Couplings (4"-12")	1/6/2014

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905.01.02	SDR 35 Gravity Sewer Saddle	The General Engineering Company	Type "PVC/U" Model "H" (6"-24")	1/6/2014
905.01.02	Elastomeric Gravity Sewer fittings	Fernco	1000 RC Series Shielded PVC Couplings	1/6/2014
905.01.05	PVC Pressure Pipe	CertainTeed	Restrained Joint C900RJ	6/21/2013
905.01.05	Tracer Wire	Kris Tech Wire Company	n/a	6/21/2013
905.02.00	Electrofusion Service Saddle	Isco Industries	Frialen Series	12/10/2007
905.02.00	Electrofusion Service Saddle	Performance Pipe Company	n/a	12/10/2007
905.02.00	HDPE Pipe	Isco Industries	n/a	12/10/2007
905.02.00	HDPE Pipe	Performance Pipe Company	Driscoplex Series 4000 (For Ductile Iron Pipe Sizes)	12/10/2007
905.02.01	HDPE Pipe for Storm Drains	Advanced Drainage Systems, Inc. (ADS / Hancor)	HDPE 12" - 48" diameter	12/10/2007
905.04.02	Prestressed Concrete Cylinder Pipe (PCCP)	Hanson Pipe and Products, Inc.	n/a	12/10/2007
905.04.02	Prestressed Concrete Cylinder Pipe (PCCP)	Price Brothers	n/a	12/10/2007
905.04.02	Prestressed Concrete Cylinder Pipe (PCCP)	Vianni Pipe, Inc.	n/a	12/10/2007
905.05.02	PVC Pipe Fitting SDR35 Plugs 4"-12"	GPK Products, Inc.	112-0004-112-0012	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 Wyes 4-12" Main w/4"branches GXGXG	GPK Products, Inc.	107-0044-107-0124	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 Wyes 6-12" Main w/6"branches GXGXG	GPK Products, Inc.	107-0066-107-0126	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 Gasketed Caps 4-12"	GPK Products, Inc.	111-0004-111-0012	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 Solvent weld Caps 4-12"	GPK Products, Inc.	211-0004-211-0012	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 45 -4-12" GXG	GPK Products, Inc.	121-0004-121-0012	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 45 -4-12" SXG	GPK Products, Inc.	122-0004-122-0012	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 90 -4-12" GXG	GPK Products, Inc.	123-0004-123-0012	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 45 Long Sweep - 4"&6" SXG	GPK Products, Inc.	922-L4,922-L6	5/23/2016

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905.05.02	PVC Pipe Fitting SDR35 4X6 Reducer GXG	GPK Products,Inc.	109-0046	5/23/2016
905.05.02	PVC Pipe Fitting SDR35 4-12" Manhole adapters	GPK Products,Inc.	916-0004-116-0012	5/23/2016
905.10.00	Ductile Iron Fittings, Specialty	One Bolt, Inc.	One Bolt Fittings	12/10/2007
905.10.00	DIP	Atlantic States/McWane Inc.	Tyton	6/21/2013
905.10.00	Ductile Iron Joint Restraint	Ford	UFR 1400	6/21/2013
905.10.00	MJ Gasket	Clow Valve Co.	Field Lok 4"-12" diameter DIP	12/10/2007
905.10.00	MJ Pipe Adapters	INFACT Corp.	Foster (4-16")	12/10/2007
905.10.00 905.11.00	Ductile Iron Mechanical Joint Restraint	EBAA Iron Inc.	Megalugs	12/10/2007
905.10.00 905.11.00	Ductile Iron Mechanical Joint Restraint	Romac	GripRings (4" to 12")	12/10/2007
905.10.00 905.11.00	Ductile Iron Mechanical Joint Restraint	Smith-Blair	Cam-Lok	12/10/2007
905.10.00 905.11.00	Ductile Iron Mechanical Joint Restraint	Star Pipe Products	Series 3000 retainer gland	12/10/2007
905.10.00 905.11.00	Ductile Iron Mechanical Joint Restraint (Wedge Action Restraint for DIP)	Sigma	SLDE (3" to 48")	6/21/2013
905.10.00 905.11.00	Ductile Iron Pipe and Fittings	American Cast Iron Pipe Company	n/a	12/10/2007
905.10.00 905.11.00	Ductile Iron Pipe and Fittings	Griffin Pipe Products Company	n/a	12/10/2007
905.10.00 905.11.00	Ductile Iron Pipe and Fittings	US Pipe	n/a	12/10/2007
905.10.00 905.11.00	Ductile Iron Push-On Joint Restraint	American Cast Iron Pipe Company	Flex-Ring	12/10/2007
905.10.00 905.11.00	Ductile Iron Push-On Joint Restraint	Griffin	Snap-Lok	12/10/2007
905.10.00 905.11.00	Ductile Iron Push-On Joint Restraint	US Pipe	Field Lok	12/10/2007
905.10.00 905.11.00	Ductile Iron Push-On Joints	American Cast Iron Pipe Company	Fastite	12/10/2007
905.10.00 905.11.00	Ductile Iron Push-On Joints	US Pipe	Tyton	12/10/2007
905.10.00 905.11.00	Ductile Iron Mechanical Joint Restraint	Star Pipe Products	Compact Mechanical Joint	6/21/2013
905.10.00 905.11.00	Ductile Iron Mechanical Joint Restraint	Tyler/Union	Compact Mechanical Joint	6/21/2013
905.11.00	Ductile Iron Service Saddle	Smith Blair	#313 Flexi-Coat Epoxy, Ductile Iron, Double Bale (DIP only)	6/21/2013

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905.11.00	Specialized Pipe Lining	American Cast Iron Pipe Company	Fusion Bonded Epoxy	12/10/2007
905.11.00	Specialized Pipe Lining	LaFarge	Sewper Coat	12/10/2007
905.11.00	Specialized Pipe Lining	US Pipe and Foundry	Permafuse Epoxy	12/10/2007
905.13.00	Insulated Steel Coupling	Smith Blair	416	12/10/2007
905.13.00	Steel Coupling	Smith Blair	411	12/10/2007
905.13.00	Steel Pipe and Fittings	American	n/a	12/10/2007
905.13.00	Steel Pipe and Fittings	Northwest	n/a	12/10/2007
921.00.00	Weatherproofing Sealant	Tremco Incorporated	Vulkem 116	12/10/2007
960.06.01	Wastewater Flow Meters	Rosemount	8700 Series	12/10/2007
960.06.02	Water Flow Meters (universal Venturi)	BIF	Universal Venturi Tube	12/10/2007
960.07.02	Level Measurement System	Milltronics	Hydroranger transmitter with Echomax transducer	12/10/2007
960.08.00	Programmable Logic Controllers (PLC)	USFilter/ Autocon	n/a	12/10/2007
960.08.00	Variable Frequency Drives (VFD)	Danfoss	VLT	12/10/2007
961.01.00	Resilient Seat Gate Valves	Clow	Resilient Seat Gate Valves (14" to 36")	12/10/2007
961.01.00	Resilient Seated Gate Valves	American AVK	Series 25 (4" to 12") Series 55 (18" to 24")	12/10/2007
961.01.00	Resilient Seated Gate Valves	American Flow Control	Series 2500 (4" to 36")	1/11/2012
961.01.00	Resilient Seated Gate Valves	Kennedy Valve	Kenseal II Series (4" to 12")	12/10/2007
961.01.00	Resilient Seated Gate Valves	M&H	4067 (14" to 36")	12/10/2007
961.01.00	Resilient Seated Gate Valves	Mueller Company	A-2360 (4" to 12") A-2361 (14" to 36")	12/10/2007
961.01.00	Resilient Seated Gate Valves	J&S Valve®	Series 6900 (4" to 36")	9/12/2017
961.02.00	Butterfly Valves	Keystone Valve	Figure 47 (30" to 48")	12/10/2007
961.02.00	Butterfly Valves	M&H	Style 1450 (30" to 48")	12/10/2007
961.02.00	Butterfly Valves	Mueller Company	Lineseal III (30" to 48")	12/10/2007
961.03.01	Sewage Air Vacuum/air Release valves	Claval	30 Series valves	12/10/2007
961.03.01	Sewage Air/Vacuum and Air Release Valves	APCO	Series 400	12/10/2007 1/5/17 rev.
961.03.01	Sewage Air/Vacuum and Air Release Valves	ARI	D-025 (nylon body) D-020 (stainless steel)	1/11/2012
961.03.01	Sewage Air/Vacuum and Air Release Valves	Golden Anderson	Figure 935	12/10/2007
961.03.02 W-4.11	Water Air/Vacuum Valves	APCO	Series 200A	12/10/2007 1/5/17 rev.

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961.03.02 W-4.11	Water Air/Vacuum Valves	ARI	D-040 (Combination)	1/11/2012
961.03.02 W-4.11	Water Air/Vacuum Valves	Claval	30 Series valves	12/10/2007
961.03.02 W-4.11	Water Air/Vacuum Valves	NIBCO	T-113-LF S-113-LF (upto 3")	5/23/2016 1/5/17 rev.
961.03.02 W-4.11	Water Air/Vacuum Valves	Valmatic	Series 100	12/10/2007
961.04.00	Pressure Reducing Valves (PRV) for Water Service	Bermad	Series 700 (4" and larger)	12/10/2007
961.04.00	Pressure Reducing Valves (PRV) for Water Service	Cla-Val	Series 90 (4" and larger)	12/10/2007
961.04.00	PRV Flow Metering Option	Cla-Val	131-VC-3T	12/10/2007
961.05.00	Electrofusion style (HDPE only)	ISCO	Fialen VA	12/10/2007
961.05.00	Tapping Sleeves	Cascade	CST-EX	12/10/2007
961.05.00	Tapping Sleeves	Ford Meter Box Company	FAST Style	12/10/2007
961.05.00	Tapping Sleeves	Mueller Company	H-304	12/10/2007
961.05.00	Tapping Sleeves	Romac	SST (DIP & PVC) SST-H (HDPE)	12/10/2007
961.05.00	Tapping sleeves	Smith Blair	660 series stainless steel	12/10/2007
961.05.00	JCM All Stainless Steel Tapping Sleeve, 2" to 12"	JCM Industries	452-Flange Outlet	3/28/2018
961.05.00	JCM All Stainless Steel Tapping Sleeve, 2" to 12"	JCM Industries	459-Mechanical	3/28/2018
961.05.00	Valves for Tapping Sleeves	American Flow Control	Series 2500	12/10/2007
961.05.00	Valves for Tapping Sleeves	AVK	Series 25	12/10/2007
961.05.00	Valves for Tapping Sleeves	Kennedy Valve	Kenseal II Series	12/10/2007
961.05.00	Valves for Tapping Sleeves	M&H	4751 (4" to 12")	12/10/2007
961.05.00	Valves for Tapping Sleeves	Mueller Company	T-2360 (2" to 12")	12/10/2007
961.05.00	Valves for Tapping Sleeves	US Pipe & Foundry	Metroseal 250 (4" to 16")	12/10/2007
961.06.00	Roadway Valve Boxes	Bingham&Taylor	4906, 4909-E, 4905-X	12/10/2007
961.06.00	Roadway Valve boxes	East Jordan Iron works	Slide Type	12/10/2007
961.06.00	Roadway Valve Boxes	Mueller Company	H-10360	12/10/2007
961.06.00	Roadway Valve Boxes	Sigma Casting	Slide and Screw Type	6/21/2013
961.06.00	Valve Box Adaptor	Adaptor, Inc.	Valve Box Adaptor II	12/10/2007

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961.06.00	Valve Box Adjustment Risers	Bingham & Taylor	Rite Hite	12/10/2007
961.06.00	Valve Box Adjustment Risers	Tyler/Union	#69	12/10/2007
961.07(b)	Fire Hydrants ( paint)	Duron Dura Clad (finish coat)	DTM Acrylic Coating, High Gloss, Safety Orange, #95-31511	12/10/2007
961.07(b)	Fire Hydrants ( paint)	Duron Dura Clad (Primer)	Terminator 2, Water base stain killer, Interior/Exterior Primer/sealer, White #7121811	12/10/2007
961.07.00	Fire Hydrants	American Darling	B84B	12/10/2007
961.07.00	Fire Hydrants	AVK	Series 2780	12/10/2007
961.07.00	Fire Hydrants	Clow	Medallion	12/10/2007
961.07.00	Fire Hydrants	Kennedy Valve	K81 Guardian	12/10/2007
961.07.00	Fire Hydrants	Mueller Company	Centurion	12/10/2007
961.08.01	Type K Copper Pipe	Cambridge - Lee Industries, LLC	Type K (1/4"-2")	5/23/2016
961.08.01	Type K Copper Pipe	Howell Metal Company	Type K (1/4"-2")	6/21/2013
961.08.01	Type K Copper Pipe	Mueller Industries	Type K (1/4"-2")	6/21/2013
961.08.02	Three Part Unions	A.Y. McDonald	74758 N/L flare, or 74758Q compression w/ grip ring	1/6/2014
961.08.02	Three Part Unions	Ford Meter Box Co.	C22	12/10/2007
961.08.02	Three Part Unions	Mueller	15400	12/10/2007
961.08.03	Corporation Stops	A.Y. McDonald	74701 Ball Corp w/Flare, 74701BQ compression w/grip ring	1/6/2014
961.08.03	Corporation Stops	Ford Meter Box Co.	F-600	12/10/2007
961.08.03	Corporation Stops	Mueller	B25008N Ballcorp with flare end or compression w/grip ring	1/6/2014
961.08.04	Curb Stops	A.Y. McDonald	76100 Ball Style curb stop flare x flare, 76100Q compression ball style w/grip	1/6/2014
961.08.04	Curb Stops	Ford Meter Box Co.	B22	12/10/2007
961.08.04	Curb Stops	Mueller	B25209N ball style with flare end or compression w/grip ring	1/6/2014
961.08.05	Outside Meter Setting Assembly	Ford	Double Assembly # B 95141-10 (contd.) (Factory assembled)	12/10/2007
961.08.05	Outside Meter Settings 1" and Smaller	AY MacDonald	714G421wTQQ66x300 factory assembled	1/6/2014
961.08.05	Outside Meter Settings 1" and Smaller	Ford	Y501 (5/8") Y503 (3/4") Y504 (1")	12/10/2007

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961.08.05	Outside Meter Settings 1" and Smaller	Mueller	H-5010 (5/8") H-5030 (3/4") H-5040 (1")	12/10/2007
961.08.05	Outside Meter Setting 1" and smaller	Muller	013B5041----07N (Factory Assembled)	3/28/2018
961.08.06	Outside Meter Setting Assembly Twin Service assembly	AY MacDonald	714H421wTQQ66x300 factory assembled	1/6/2014
961.08.06	Outside Meter Setting Assembly Twin Service assembly	Ford	B95141-10 (double assembly)	12/10/2007
961.08.06	Outside Meter Setting Assembly Twin Service Assembly)	Muller	013B5042----07N (Factory Assembled)	3/28/2018
961.08.06	Twin Service Connections	Ford Meter Box Co.	Angle "U" branch	12/10/2007
961.08.07	¾" and 1" Inside Meter Setting	Ford Meter Box	Copperhorn Series	12/10/2007
961.08.07	¾" and 1" Inside Meter Setting	Mueller	H-1412	12/10/2007
961.08.08	1 ½" and 2" copper water meter setting fittings	A. Y. McDonald	721R615WWFF 665 1 ½" 721R715WWFF 775 2" Factory assembled	1/6/2014
961.08.08	1 ½" and 2" copper water meter setting fittings	Ford Meter Box Co.	VV76-15-HB-11-66 (1 ½") VV77-15-HB-11-77 (2")	12/10/2007
961.08.08	1 ½" and 2" copper water meter setting fittings	Mueller	H-1423-9900	12/10/2007
961.08.09	Service Saddles	Ford	F202 (DIP) FC202 (PVC)	12/10/2007
961.08.09	Service Saddles	Mueller	DR2A (DIP) DR2S (PVC)	12/10/2007
961.08.09	Service Saddles	Romac Industries, Inc.	202NS (6"-24")	1/6/2014
961.08.09	Service Saddles	Smith Blair	317 Series, double strap, for DIP & C900 pipe 397 series, single strap, for C900 PVC	9/12/2017
961.08.09	Service Saddles	A. Y. McDonald	4825A epoxy coated ( DIP) 4845A epoxy coated (PVC)	1/6/2014
961.08.10	Curb stop boxes	A. Y. McDonald	Series 5602	12/10/2007
961.08.10	Curb stop boxes	Armor Access Box	Curb Service Box series (PVC)	12/10/2007
961.08.10	Curb stop boxes	Ford	Arch Base Design (Cast iron)	12/10/2007
961.08.10	Curb stop boxes	Ford Meter Box Co.	EA2 Series	12/10/2007

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961.08.10	Curb stop boxes	Mueller	H-10316 (1") H-10336 (1 1/2" to 2")	12/10/2007
961.08.11	Meter Box	DFW Plastics	DFW-1830T	6/21/2013
961.08.11	Meter Box Cover and Frame	A.Y. MacDonald	75M53AT A Style 15 x 20 single 75M53ATT A Style 15 x 20 twin 74M24T monitor style 20 x 24 74M30T monitor style 20 x 30 74Mx2 ext ring 20 x 24 Rotational Frame and cover with Locking Lid; 18 inch model number 74R32AC ; for use with meter vaults requiring grade adjustments.	1/6/2014
961.08.11	Meter Box Cover and Frame	Ford	A53-T 15" Type A single A53-TT 15" Type A twin A32-T 12" Type A single	1/6/2014
961.08.11	Meter Box Cover and Frame	Vestal	32-072 RMRC-215L 20"x15" R&C W/SN	1/6/2014
961.08.11	Meter Boxes	Armor Access Box	Utility Meter Box series	12/10/2007
961.08.11	Meter Boxes	Carson Brooks Plastics, Inc.	2200 Series	12/10/2007
961.08.11	Meter Boxes	Ford Meter Box	Monitor Lid and Frame No. MC-24-TT	12/10/2007
961.08.11	Meter Boxes	Horne Concrete Construction	24"X30" concrete MV 30"X30" concrete MV	1/6/2014
961.08.11	Meter Boxes	Rhino Water Meter Boxes	MB Series	12/10/2007
961.08.11	Meter Boxes	Mayer Bros., Inc	24"X30" concrete MV 30"X30" concrete MV	1/6/2014
961.08.11	Meter Frame Extension Rings	A.Y. McDonald	20"X24" & 20"X 30"	1/6/2014
961.08.11	Meter Frame Extension Rings	Bingham & Taylor	20"X24" & 20"X 30"	1/6/2014
961.08.11	Meter Frame Extension Rings	Vestal	20"X24" & 20"X 30"	1/6/2014
961.08.11	Meter Boxes Frame & Cover	Bingham & Taylor	BTA Frames and covers for 12" only	6/21/2013
961.08.11	Meter Boxes Frame & Cover	Capital Foundry	15" Rotational	6/21/2013
961.08.11	Meter Boxes Frame & Cover	Ford	A 32C	6/21/2013
961.08.12	Meter Boxes	DFW Plastics	Model Number 2452030TP	12/10/2007
961.09.00	Meter Vaults	Clearflow	n/a	12/10/2007
961.09.00	Meter Vaults	Smith-Midland	n/a	12/10/2007
961.09.00	Meter Vaults- Flange adapters	Sigma	Sigma Zip Flanges, ZF2 (standard, 2"-8" @ 200 psi rating/ 10"-12" @ 175 psi rating) series field installed flange adapters for use in large water meter settings.	1/11/2012



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961.09.00	Water Meter Vaults	AC Miller	Pre-Cast	12/10/2007
961.10.00	Blow-Off Hydrants	John C. Kupferle Foundry Co.	Eclipse No. 85	12/10/2007
961.10.00	Blow-Off Hydrants	Mueller	A-408	12/10/2007
961.11.01	Grinder Pumps	Delta Environmental	D Series	12/10/2007
961.11.01	Grinder Pumps	Environment One	2000 Series	12/10/2007
961.11.02	Union Ball Valves	Environment One	-	12/10/2007
961.11.02	Union Ball Valves	Mueller Industries	B-25000N	6/21/2013
961.11.02	Union Ball Valves	Vortex Pump, LLC	V-1000	12/10/2007
961.11.03	Check Valves	Environment One	-	12/10/2007
961.11.03	Check Valves	Flo Control, Inc.	1720	12/10/2007
962.00.00	Manhole Insert	Urban Environmental Products	The Man-Pan	12/10/2007
962.01.00	Flexible Connectors for Structures, Pipes and Laterals	NPC Inc.	Kor-N-Seal	12/10/2007
962.01.00	Flexible Connectors for Structures, Pipes and Laterals	Press-Seal Gasket Corporation	-	12/10/2007
962.03.00	Sanitary Sewer Heavy Traffic Manhole Frame and Cover	Capitol Foundry	-	12/10/2007
962.03.00	Sanitary Sewer Heavy Traffic Manhole Frame and Cover	Chesapeake Foundries, Inc.	C313-365	12/10/2007
962.03.00	Straight Wall Manhole Frame and Lid	Chesapeake Foundries, Inc.	C313-300	12/10/2007
962.03.00	Straight Wall Manhole Frame and Lid	East Jordan Iron Works, Inc.	154513	12/10/2007
962.05.00	Concrete Manhole Adjustment rings.	Prism Precast Products		12/10/2007
962.05.00	HDPE Manhole Riser	Ladtec, inc..	n/a, (Conditional Approval given 5/3/99.)	12/10/2007
962.05.00	Precast Rubber Grade Rings	American Highway Products LTD.	n/a	12/10/2007
962.05.00	Steel Expandable Manhole Riser	American Highway Products LTD.	Pivoted Turnbuckle Manhole Riser	12/10/2007
962.06.00	Manhole Interior Liners	Agru	Sure-Grip HDPE Liner	12/10/2007
962.06.00	Manhole Interior Liners	Ameron International	T-Lok	12/10/2007
963.02.01	Liner Plate Tunnel	American Commercial	-	12/10/2007
963.02.01	Liner Plate Tunnel	Armco	-	12/10/2007
963.02.01	Liner Plate Tunnel	LTV Steel	-	12/10/2007
963.03.00	Casing End Seals	Advance Products & Systems	Model AC	12/10/2007
963.03.00	Casing End Seals	Maloney Technical Products	Multiflex	12/10/2007
963.03.00	Casing End Seals	Pipeline Seal & Insulator, Inc.	Model S or C	12/10/2007
963.03.00	Casing End Seals	CCI Pipeline Systems	ESW and ESC	9/12/2017

**HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING**

**APPROVED MATERIALS LIST**

Published on-line since 2007 (Updated 3/28/2018)

Reference	Product Description	Manufacturer	Model Number (Details)	Date listed
963.04.00	Casing Spacer/Insulators	Advance Products & Systems		12/10/2007
963.04.00	Casing Spacer/Insulators	Cascade Waterworks Manufacturing Co.		12/10/2007
963.04.00	Casing Spacer/Insulators	Pipeline Seal and Insulator, Inc.		12/10/2007
963.04.00	Casing Spacer/Insulators	RACI North America, Inc.	Varies	12/10/2007
963.04.00	Casing Spacer/Insulators	CCI Pipeline Systems	CSS8 and CSS12 (Stainless Steel)	9/12/2017
964.04.02	Cured in place Manhole Liner	Poly-Triplex Technologies	Poly triplex Liner System	12/10/2007
964.04.02	Cured in place Manhole Liner	Terre Hill	Multi-plex	12/10/2007
964.04.02	Spray on Epoxy Manhole Liner	Raven	Raven 400S	12/10/2007
964.04.02	Spray on Epoxy Manhole Liner	Terre Hill	Hydropoxy	12/10/2007
966.01.00	Grinder Pumps	Environment One	2000 series	12/10/2007
966.01.00	Grinder Pumps	Vortex Pump, LLC	V-1000	12/10/2007
966.03.02	Ball Valves	Hayward	Industrial Series	12/10/2007
967.03.00	External Coating for Steel Pipe	Polyken Technologies	YGIII System	12/10/2007
967.04.00	External Coating for Prestressed Concrete Pipe	Tnemec Company, Inc.	46H-413	12/10/2007
967.07.00	External Coating for Non-Welded Steel Pipe Joints	Polyken Technologies	YGIII System	12/10/2007
967.08.00	External Coating for Welded Steel Pipe Joints	Polyken Technologies	YGIII System	12/10/2007
967.09.00	Field Applied Coating for Insulating Flanges, Insulating Couplings, Mechanical Joints, and Insulating Corporation Stops	Denso North America, Inc.	Denso Paste Denso Profiling Mastic Denso Tape Denso Utility Tape	12/10/2007
967.09.00	Field Applied Coating for Insulating Flanges, Insulating Couplings, Mechanical Joints, and Insulating Corporation Stops	Trenton Corporation	Wax-Tape Primer Fill-Putty #1 Wax-Tape Glas-Wrap	12/10/2007
967.10.00	Prepackaged Magnesium Anodes	Stuart Steel Protection Corporation		12/10/2007
967.11.00	Magnesium Ribbon Anodes	Dow Magnesium		12/10/2007

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Reference	Product Description	Manufacturer	Model Number (Details)	Date listed
967.12.00	Prepackaged Zinc Anodes	Stuart Steel Protection Corporation		12/10/2007
967.13.00	Zinc Ribbon Anodes	The Platt Brothers & Company		12/10/2007
967.14.00	Test Stations	CP Test Services, Inc.	NM-7	12/10/2007
967.17.00	Current Measuring Shunt	Cott Manufacturing Company	Yellow	12/10/2007
967.18.00	Compression Connectors	Burndy Corporation	YC-C	12/10/2007
967.19.00	Electrical Tape	3M Company	Scotch 88 Vinyl Tape Scotch C130 Rubber Tape	12/10/2007
967.20.00	Copper/Copper Sulfate Reference Electrode	Electrochemical Devices, Inc.	UL-CUG-SW	12/10/2007
967.21.00	Silver/Silver Chloride Reference Electrode	Electrochemical Devices, Inc.	UL-AGG-SW	12/10/2007
967.24.00	Thermite Weld Equipment	Erico, Inc.		12/10/2007
967.25.00	Coating for Thermite Welds to Prestressed Concrete Pipe	Royston Laboratories Division	Roskote R28	12/10/2007
967.25.00	Coating for Thermite Welds to Steel and Ductile Iron	Royston Laboratories Division	Handy-Cap 747 Primer	12/10/2007
967.26.00	Insulating Flanges	Advance Products & Systems, Inc.	Trojan	12/10/2007
967.27.00	Insulating Couplings	Dresser Industries	Style 39 Insulating Coupling	12/10/2007
967.28.00	Insulating Corporation Stops	Mueller Company	300 Corporation Ball Valve	12/10/2007
967.29.00	Mastic	Royston Laboratories Division	Roskote R28	12/10/2007
967.30.00	Linked Rubber Seal	Thunderline Corporation	Link Seals	12/10/2007
967.31.00	Insulated Casing Spacers	Advance Products & Systems, Inc.	SSI	12/10/2007
967.31.00	Separator Mesh	Stuart Steel Protection Corporation	Diamond Rockstop	12/10/2007
1009.03.02	Sewer Cleanout	Horne Concrete Construction	Cleanout Block	6/21/2013
1009.03.02	Sewer Clean-outs	Prism Precast Products	-	12/10/2007
Storm Drain Details	Curved Vane Inlets Grates	Neenah Foundry Company	(1998, County limited grate use substitution for new and existing grates in WR inlets.)	12/10/2007
Storm Drain Details	'S' Cast Iron Vane Grates	East Jordan Iron Works, Inc.	-	12/10/2007

**HOWARD COUNTY, MARYLAND  
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<b>Reference</b>	<b>Product Description</b>	<b>Manufacturer</b>	<b>Model Number (Details)</b>	<b>Date listed</b>
	Dry Pit Submersible Pumps	Fairbanks Morse	2430WD 5430WD	12/10/2007
	Dry Pit Submersible Pumps	Flowserve	MSX	12/10/2007
	Dry Pit Submersible Pumps	Flygt	T Series	12/10/2007
	Dry Pit Submersible Pumps	KSB	Sewatec Series	12/10/2007
	Flowmeters	ABB	MagMaster	12/10/2007
	Flowmeters	Krohne	Aquaflux	12/10/2007
	Pump Check Service Valve	Bermad	700 Series	12/10/2007
	Pump Check Service Valve	Claval	60 series	12/10/2007
	Suction Lift Pumps	Gorman Rupp	Super T series	12/10/2007
	Suction Lift Pumps	Smith & Loveless	#501 MG	12/10/2007
	Swing Check Valve	M&H Valve Co.	Figure 159	12/10/2007
	Swing Check Valve	Valmatic	Flex Swing #508A	12/10/2007
	Water Pumps (horizontal split case)	Gould Pumps	3400 Series	12/10/2007
	Water Pumps (Split Case)	Fairbanks Morse	2800 5800	12/10/2007
	Water Pumps (Split Case)	Flowserve	LN LNN	12/10/2007
	Water Pumps (Split Case)	Patterson	Horizontal Split-Case	12/10/2007
	Wet Well Submersible Pumps	Fairbanks Morse	2430M&W 5430M&W	12/10/2007
	Wet Well Submersible Pumps	Flowserve	MSX	12/10/2007
	Wet well Submersible Pumps	Flygt	3000 series	12/10/2007
	Wet well Submersible Pumps	KSB	KRT	12/10/2007



# HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

9250 Bendix Road

Columbia, Maryland 21045

410-313-2414

Thomas E. Butler, P.E., Deputy Director of Public Works

Engineering, Development and Construction

[www.howardcountymd.gov](http://www.howardcountymd.gov)

FAX 410-313-6144

TDD 410-313-2323

## **Material Selection Committee Submittal and Review Process May 23, 2016**

The Approved Materials List exists to expedite construction in Howard County by identifying the products that are approved for use on site construction projects throughout the County. The Approved Materials List is not intended to be an exhaustive list of all materials acceptable for use in road, utility, and storm water management new construction. Vendors and manufacturers are added to the List after their petition is reviewed and approved by the Material Selection Committee. Construction materials that are included on the list are for use throughout the Howard County. Construction materials with limited applications or conditional approval are more appropriately approved on a case-by-case basis per project. The Project Manager presides over such approvals on a given Capital Project. Developer Projects may seek a Waiver of Design Standards through the Department of Planning and Zoning during the design review process. Products designed for installation by maintenance crews instead of new construction should be directed to the Bureau of Utilities or the Bureau of Highways as appropriate.

Please send all petitions and samples for the Material Selection Committee review/approval to:

Material Selection Committee Chairman  
John Seefried P.E. – Chief, Construction Inspection Division  
9250 Bendix Road  
Columbia, MD 21045

The Chairman of the Material Selection Committee reviews the submittals for completeness and distributes the materials for consideration by the appropriate Public Works Staff. The Material Selection Committee convenes as work schedules allow. The Committee will approve, deny or table the petitions. A written response will be provided to the applicant from the Committee Chairman. Petitions for inclusion on the List shall be as described below.

Petitions shall include seven hardcopies of:

- A) A concise description of the material along with the manufacture's specifications, photographs or sketches of the material, and the installation procedures. Where multiple materials are shown on various literature, please highlight the material pertaining to the specific submittal.
- B) Show the reference, description, manufacturer, and model number as you desire it to be shown on the Approved Materials List. The last page of the current approved list is left blank for your convenience in populating the list.

	Reference	Product Description	Manufacturer	Model Number (Details)
<i>example A</i>	905.01	PVC Pipe for Roadway Projects	XYZ Inc.	Sure Drain 4"-18" Diameter Pipe
<i>example B</i>	905.01	PVC Perforated Underdrain	XYZ Inc.	Underdrain 6000 3"-6" Diameter Pipe

C) Written certification that the material "complies completely" with all published Howard County specifications, details, and design guidelines. The certification shall call-out the Howard County Details and/or Specifications that apply and document how these standards have been met. The Design Manuals are posted on the Howard County, Public Works Department, Bureau of Engineering web page. [http://www.howardcountymd.us/DPW/Engineering\\_Homepage.htm](http://www.howardcountymd.us/DPW/Engineering_Homepage.htm) If the material, as proposed, deviates in any way from Howard County Standards, the specific exception must be documented in the petition.

*example A* - Sure Drain PVC Pipe for Roadway Projects in nominal pipe diameters of 4, 6, 8, 12 & 18 inches completely complies with the Howard County Volume IV Specification 905.01.01 and associated SHA Standards. Attached is a certified study by the University of Wisconsin dated 3/12/2012 showing that Sure Drain meets or exceeds the requirements of AASHTO M304 and ASTM D3034. Please note that the attached study was performed under ASTM D3035 criteria which is more stringent in requiring 2000lb loading vs. 1000lb loading under ASTM D3034.

The certification shall be signed by official officer within the company.

D) Testimonials, references or contact information for other local jurisdictions that have approved the use of the materials (For example - Baltimore City, Baltimore County, Anne Arundel County, Maryland State Highway Administration, MDE, WSSC, etc.)

Additional Requirements:

E) If applicable, manufacturer field installation guide line shall be submitted that explains proper way of storing, installation and testing in the field.

F) In cases where the material requires structural design, three copies (in addition to the seven copies in the petition) of the engineering computations and drawings wet sealed and signed by a Professional Engineer registered in the State of Maryland shall also accompany the submittal.

G) In cases where field testing is needed by Howard County, the County will request samples and set a schedule for evaluating and analyzing the performance of the material.

Submittals of complete petitions are required prior to consideration by the Material Selection Committee. Applicants will be notified in writing by the Material Selection Committee Chairman about the decisions of the Committee.